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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/536,806	05/27/2005	Bernd Wenderoth	3557-43	4541
23117 7: NIXON & VAN	590 02/09/200 DERHYE, PC	EXAMINER		
901 NORTH GLEBE ROAD, 11TH FLOOR			OGDEN JR, NECHOLUS	
ARLINGTON, VA 22203			ART UNIT	PAPER NUMBER
			1751	
SHORTENED STATUTORY	PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MON	THS	02/09/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)			
Office Action Commons	10/536,806	WENDEROTH ET AL.			
Office Action Summary	Examiner	Art Unit			
	Necholus Ogden	1751			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1)⊠ Responsive to communication(s) filed on 17 No. 2a)□ This action is FINAL. 2b)⊠ This 3)□ Since this application is in condition for allower closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims	•				
 4) Claim(s) 1-7 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-7 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 					
Application Papers					
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119		•			
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte			

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Response to Amendment

Claim Rejections - 35 USC § 112

1. Claims 6-7 rejected for the use of an antifreeze or five-member heterocyclic, but, since the claim does not set forth any steps involved in the method/process, it is unclear what method/process applicant is intending to encompass is withdrawn in view of applicant's amendment.

Claims 6-7 rejected under 35 U.S.C. 101 because the claimed recitation of a use, without setting forth any steps involved in the process, results in an improper definition of a process is withdrawn in view of applicant's amendment.

2. Claims 1-5 are rejected under 35 U.S.C. 103(a) as obvious over CA (2449208) in view of Eaton et al (2003/0047708) is withdrawn in view of applicant's arguments.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

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invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 5. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 6. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 7. Claims 1-3 and 5-7 are rejected under 35 U.S.C. 102(e) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Eaton et al (6,818,146).

Eaton et al disclose a nontoxic fuel cell engine coolant comprising aqueous solutions of 1,3 propanediol having 50, 55 and 60% volume percent in water (col. 3, lines 10-30) and wherein said solution comprises 0.002 to 0.02% by weight of mercaptobenzothiazole, benzyltriazole in water (see claims 5 and 6). Eaton et al specifically teach that said conductivity is less than 50 in tables 6 and 7.

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As this reference teaches all of the instantly required it is considered anticipatory.

In the alternative that the above disclosure is insufficient to anticipate the above listed claims, it would have nonetheless been obvious to the skilled artisan to produce the claimed composition, as the reference teaches each of the claimed ingredients within the claimed proportions for the same utility.

8. Claims 1-3 and 5-7 are rejected under 35 U.S.C. 103(a) as obvious over WO (02/055759).

WO '759 discloses a nontoxic fuel cell engine coolant comprising aqueous solutions of 1,3 propanediol having 50, 55 and 60% volume percent in water (page 9, line 23-page 10, line 10 and page 11, lines 13-31) and wherein said solution comprises 0.002 to 0.02% by weight of mercaptobenzothiazole, benzyltriazole in water (see claims 6 and 7). WO '759 specifically teaches that said conductivity is less than 50 in tables 6 and 7.

As this reference teaches all of the instantly required it is considered anticipatory.

- 9. In the alternative, WO '759 is silent with respect to the conductivity, however, it would have nonetheless been obvious to the skilled artisan to produce the claimed composition, as the reference teaches each of the claimed ingredients within the claimed proportions for the same utility.
- 10. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Eaton et al (6,818,146) in view of Homma et al (6,680,138).

Eaton et al is relied upon as set forth above. Specifically, Eaton et al does not disclose a silicon component.

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Homma et al disclose a conducive composition for fuel cells that is excellent in resistant to heat and excellent in conductivity at high temperatures, wherein said composition comprises an inorganic compound such as tetramethoxysilane at not more than 100% (abstract; col. 13, lines 1-10).

It would have been obvious to one of ordinary skill in the art to include the orthosilicate ester additive of Homma et al to the coolant composition of Eaton et al because Eaton et al invite the inclusion of other additives (see claims) and Eaton et al is concerned with conductivity of the fuel cells and Homma et al teach that said orthosilicate esters are used for as inorganic agents in fuel cell compositions (col. 13, lines 1-10). Therefore, one of ordinary skill in the coolant art would have been motivated to include the orthosilicate ester component of Homma et al to the compositions of Eaton et al because only beneficial results would have been obtained, absent a showing to the contrary. Moreover, it is held that "It is prima facie obvious to combine two compositions each of which is taught by the prior art to be useful for the same purpose, in order to form a third composition to be used for the very same purpose.... [T]he idea of combining them flows logically from their having been individually taught in the prior art." In re Kerkhoven, 626 F.2d 846, 850, 205 USPQ 1069, 1072 (CCPA 1980).

11. Claims 1-7 provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims of copending Application No. 10/477,463; 11/253,754; 11/448,737 is withdrawn in view of applicant's terminal disclaimer.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Necholus Ogden whose telephone number is 571-272-1322. The examiner can normally be reached on M-T, Th-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Douglas McGinty can be reached on 571-272-1029. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Necholus Ogden Primary Examiner Art Unit 1751

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